

Nebraska Information Technology Commission

# Community Technology Fund 2002

## Application Form

**Project Title:** Interactive Video/Distance Learning Network

**Submitting Entity:** Cherry County Hospital

**Grant Amount Requested:** \$11,136

**Project Contact Information (Name, address, telephone, fax, and e-mail address):**

**Mr. Brent Peterson, Administrator**

**Cherry County Hospital**

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## **Executive Summary**

**Provide a one or two paragraph summary of the proposed project. This summary will be used in other externally distributed documents and should therefore clearly and succinctly describe the project and the information technology required.**

Cherry County Hospital is a member of the Heartland Health Alliance (HHA), a 33-member hospital network in Nebraska and northeast Kansas. Through a strategic planning process, HHA has identified interactive video as the most effective and efficient technology to address health care challenges faced by its member rural hospitals and the patients they serve. To date, six member hospitals have access to the HHA's Interactive Video/Distance Learning System. HHA is working to provide interactive video to at least 10 additional rural hospital sites across the state, one of those being the Cherry County Hospital.

This application requests funding assistance to install the interactive video system at the Cherry County Hospital in Valentine, Nebraska. Installing interactive video at the hospital will provide Cherry County the opportunity to access medical and educational programming opportunities that are not currently available without, in many cases, significant travel time, time away from work and home, and cost. Also, the interactive video will provide the technology needed to support the development of telemedicine and telehealth services in Cherry County.

## **Goals, Objectives and Outcomes**

### **1. Describe the project, including:**

- **Problem statement and needs assessment**
- **Goals (i.e., increasing Internet literacy)**
- **Project activities or outputs (specific, measurable steps to get to the goal--i.e., offering six sessions of classes). Include training and staff development activities if appropriate.**
- **Expected outcomes (impact on the project's beneficiaries--i.e., at least 60 participants will learn to search for information on the Internet searches and send e-mail)**

### **Problem Statement and Needs Assessment**

The Cherry County Hospital is continuously challenged with providing quality and yet affordable medical care to the residents of Cherry County and its surrounding service area. Current challenges faced by the hospital are having a significant impact on quality of care provided to their patients. Some of the challenges impacting quality of care include at the Cherry County Hospital include:

- Chronic shortage of medical professionals (physicians and nurses);
- Impact of Balanced Budget Act;
- Conversion to a Critical Access Hospital;

- Lack of local educational opportunities for patients and providers;
- Status of rural economy;
- Travel distances between patients and specialty medical providers;
- Limited financial resources; and
- Limited access to telecommunications.

### **Chronic Shortage of Medical Professionals in the Cherry County Area**

Cherry County is Federally Designated as Health Professional Shortage Area. Cherry County has four physicians, a physician assistant, a board certified general surgeon, 14 LPNs and 34 RNs able to provide medical services to a population of over 6,300 people in Cherry County and the surrounding service area.

### **Balanced Budget Act Impact**

Studies conducted by the Rural Hospital Association indicate those hospitals, like the Cherry County Hospital, with less than 50 beds are the most heavily impacted sector of the hospital industry by the Balanced Budget Act.

### **Conversion to Critical Access Hospital**

Under the Balanced Budget Act of 1997, states are allowed to designate Critical Access Hospitals through the Medicare Rural Hospital Flexibility Program. A major goal of the program is develop sustainable rural health networks. The Cherry County Hospital was certified as a Critical Access Hospital in April 2001. Conversion was critical to the sustainability of the Cherry County Hospital.

### **Lack of Local Educational Opportunities for Patients and Medical Providers**

It is paramount that Cherry County's health care professionals enhance and improve professional skills through continued education, training, and information sharing. This can be difficult in for health care providers in Cherry County due to travel distances between rural and urban area hospitals and other medical providers.

### **Status of Rural Economy**

Nebraska's rural economy has been impacted by the movement of young people out of the rural areas, limited economic development, and a growing aging population. Cherry County's median household income is 23 percent below the average median household income in the State of Nebraska. Also, the elderly population makes up 17.1 percent of the population in Cherry County. Each of these factors has affected the financial status of the Cherry County Hospital and the types of services the hospital is able to provide rural residents.

### **Long Travel Distances Between People and Services**

The square mileage of Cherry County is 5961. Based on current population, this equates to approximately 1.1 persons per square mile. Also, individuals residing in Cherry County often have to travel several hundred miles to a larger hospital that offers specialty care. This is compounded in winter months by sometime difficult road conditions. The distance between rural patients and medical care has significantly increased costs, risks, and lengths of hospital stays. In some cases, travel distance, unfamiliarity to urban areas, and inconvenience to family members will deter a patient from obtaining the needed medical services.

### **Limited Financial Resources of Rural Hospitals**

Financial constraints of the Cherry County Hospital make it difficult and sometimes cost prohibitive to provide the needed medical and educational programming to patients and medical providers. Lack of training, because of a lack of funding, can negatively impact the quality of medical care provided in Cherry County.

### **Telecommunications in Rural Nebraska**

It is not uncommon knowledge that Nebraska lacks a model for “telecommunications connectivity” or a one-stop center to assist rural hospitals in identifying the best technological infrastructure to address their medical and educational programming needs. Rural hospitals, like the Cherry County Hospital, are dealing with many other critical issues. Unfortunately, because of the lack of information and guidance on telecommunications system, addressing and expanding opportunities via telecommunications is often placed low on the priority list of rural hospitals.

### **Goals**

The goals of the installing the Interactive Video/Distance Learning System at the Cherry County Hospital are:

- 1) to increase access to medical and educational programming for medical providers and patients in Cherry County; and
- 2) to provide the technology foundation needed to support the development of telemedicine and telehealth services in Cherry County.

### **Project Activities or Outputs**

Project activities will include:

- 1) Installing the Interactive/Distance Learning System at the Cherry County Hospital;
- 2) Expanding the range of medical and educational programming available locally via the Interactive/Distance Learning System;
- 3) Designing and implementing a community outreach program on the capabilities of the Interactive Video/Distance Learning Network; and
- 4) Evaluating the effectiveness of the Interactive Video/Distance Learning Network at the Cherry County Hospital.

### **Expected Outcomes**

Expected outcomes include:

- 1) Improved and enhanced medical services for residents served by the Cherry County Hospital;

- 2) Local access to medical and educational training opportunities;
- 3) Reduction in spending associated with travel and time away from work; and
- 4) Partnerships with local community organizations interested in utilizing the Interactive Video/Distance Learning System to meet their individual programming needs.

## **Project Justification**

### **2. Explain how the proposed project supports one or more of the funding priorities by describing how the project:**

- **Uses information technology to address community needs related to community and economic development, the delivery of local government and library services, and health care.**
- **Uses information technology to address community needs in innovative ways or initiates the use of information technology to address community needs.**
- **Demonstrates strong collaboration within a community or region in addressing IT development.**

Installing interactive video at the Cherry County Hospital's initiates the use of information technology to address health care needs of the county by providing local access to medical and educational programming currently not available to Cherry County without travel time and costs associated with travel. Also, this project demonstrates a strong collaboration of HHA hospitals across the state to work together as well as with other community organization to develop a simple and cost effective approach to improve the quality of health care for Nebraskans.

### **3. Describe the expected benefits (both tangible and intangible) of the proposed project. If applicable, include any economic benefits or long-term cost savings.**

#### **Benefits Derived from Interactive Video**

Despite the lack of options for connectivity and confusion in understanding connectivity, HHA member hospitals have designed a system that will provide rural hospitals and their respective communities a financially viable system to provide medical and educational programming opportunities based on individual needs.

The overall benefits to being a part of an interactive video system are convenience and cost savings. HHA's interactive video is designed to provide local access to medical and educational programming opportunities and to decrease costs associated with travel and time away from work and home.

#### **Examples of Medical and Educational Programming**

The following is a list of some of the programming opportunities either currently available or anticipated to be available to the Cherry County Hospital. In addition to the programming listed

below, HHA will coordinate all relevant programming options as they become available and work with the rural hospitals on identifying programming based on individual needs.

- **Bryan School of Nursing**  
Licensed Practical Nurse (LPN) to Registered Nurse (RN) Completion Program and Allied Health Courses
- **Nebraska Methodist College**  
Continuing education programs along with degree granting coursework.
- **Community and Health Education Resource Center**  
Located at BryanLGH Medial Center, the Center provides educational offerings to the general public on a number of health related topics each year.
- **Cardiac & Chest Pain Initiative**  
A priority initiative of the Heartland Health Alliance addresses Nebraska's leading cause of death, heart disease. The Cardiac and Chest Pain initiative is intended to provide cardiac education for physicians, nurses, first responders and the community. The program establishes protocols and procedures so that a standard of care is followed.
- **Telehealth/Telemedicine (Future Activities)**
  - Cardiac - In many cases, consultation between the family practice physician in rural Nebraska and cardiologists in Lincoln either pre or post surgery can save the patient the stress and strain of travel along with related cost. In addition, cardiac care would be enhanced by use of the system's data transmission capabilities. Diagnostic cardiac echocardiographic, vascular ultrasound studies, ambulatory holter monitoring and ECG transmissions administered by mobile units which currently visit these rural sites could be transmitted in "real time" and allow for faster diagnosis.
  - Dialysis - Rural nursing personnel supervised via interactive video by an urban-based nephrologist would allow small rural communities the opportunity to offer dialysis in their local community. It would greatly reduce the physician's time and associated costs along with the travel time and inconvenience of the patients served.
  - Radiology - Via the data capabilities of interactive video, radiology consults between the rural facilities and radiologist at the urban facilities can occur.
  - Mental Health - Rural physicians and hospital staff will be able to work cooperatively with mental health professionals in urban settings for initial patient consultations through interactive video.
  - Education and Meeting Opportunities - HHA's Interactive Video/Distance Learning System is an open system with bridges that allow access to education and consultative services at the state and national level. Examples of current programming include access to University of Nebraska Medical Center Grand Rounds, Masters Level Nursing Courses at Creighton, and VHA/AHA Televideo Programming.
- **Diabetes Education**  
The American Diabetes Association has recognized and endorsed this nationally recognized pilot program currently administered by HHA hospitals. This certification program provides local diabetes education for patients and includes their local physician and eliminates the associated travel cost. Interactive video provides these educators in-service opportunities with their fellow educators and the program's director with the BryanLGH Diabetes Center.

- **Center for Advancing Nursing Practice (BryanLGH Medical Center)**  
Keeping nurses current with advances in their profession, the Center's *Excellence in Nursing Forums* bring nationally recognized leaders in various aspects of nursing to Lincoln 6-8 times per year. This strategy allows for a greater number of rural nurses to have access to these educational programs and does so at a much lower cost. The Forums are open to all nursing professionals in the region.
- **Center for Bioethics (BryanLGH Medical Center)**  
An annual Bioethics conference is hosted by the Center. The conference features a nationally known keynote speaker and is open to professionals from a number of health care disciplines.
- **Clinical and Professional Development**  
In-Service programs with specific medical disciplines can be held via the interactive video system with other hospitals, health care organizations and educational institutions also with interactive video.
- **55PLUS**  
Ten to twelve times each year, the BryanLGH Medical Center's 55PLUS seniors program provides programs to its members covering a host of topics
- **Heartland Health Alliance Council and Task Forces**  
In addition to the governing body of HHA (the Council of Network Affairs) which consists of the CEOs of each of the member hospitals, HHA has several task forces in place. These working groups address the ongoing issues applicable to HHA and their member hospitals. With interactive video in place, meetings by members of the various task forces can be held via interactive video. Travel time and expense to meeting sites can be eliminated, allowing the members to better spend their time and financial resource.

### **Cost Effectiveness of Interactive Video**

Because of the significant financial commitment made to this project by each of the organizations involved, HHA is committed to insure that the interactive video system is used in an efficient and effective manner to meet programming needs of the Cherry County Hospital and the community. HHA is confident that bringing medical and educational programming into to a community like Valentine, as opposed to sending staff outside of the community, will result in cost savings to the rural hospital. To make sure that a cost savings is realized, HHA will work with Cherry County Hospital personnel to identify their individuals programming needs and how to best access training to meet those needs.

Over the grant period and through the evaluation process, HHA will work with the Cherry County Hospital to establish a cost benefit analysis for each time interactive video is used in place of sending staff away for training or meetings. Results of these cost benefit analyses will quantify the cost of the interactive video system for the hospital. These results will be included in the final evaluation report as well as recommendations to improve the cost effectiveness of the system for the Cherry County Hospital.

### **Innovation of Interactive Video**

To some individuals in the world of telecommunications, interactive video is not by any means a new and innovative technology. That is not the case for the Cherry County Hospital in Valentine. Interactive video is not only new and innovative to this rural hospital, but with the

right financial and technical assistance, can prove to be a very simple and effective technology to use when addressing many of the problems the hospital is currently facing.

The innovation of this project lies, not with the technology, but with the cooperative effort of the Cherry County Hospital, HHA, other participating hospitals. These organizations have come together to implement interactive video in their local communities and to collaborate on accessing medical and educational programming to improve the quality of medical care for their patients and providers.

Also innovative is HHA's approach to share use of the interactive video system with local community organizations in each hospital's respective community. The Cherry County Hospital made contact with local community leaders and organization representatives as to their need for and interest in utilizing interactive video. The response was very favorable. Many of these local organizations are also dealing with limited financial resources for time and travel and indicated an interest in utilizing the system for their training needs.

## **Technical Impact**

### **4. Describe the hardware, software, and communications needed for this project and explain why these choices were made. (5 points)**

#### **Heartland Health Alliance Interactive Video/Distance Learning System Plan**

Each year during a planning process, HHA develops strategic initiatives to collectively address major issues faced by its member hospitals. Increasing the number of rural hospital sites with access to interactive video system and expanding medical and educational programming opportunities in rural Nebraska is a priority initiative for HHA and its member hospitals. To date, HHA has connected six hospitals, located in Aurora, Beatrice, Hastings, Lexington, Lincoln, and North Platte, to the Interactive Video/Distance Learning System and is committed to connecting at least ten (10) additional rural hospitals and to expanding medical and educational programming opportunities for rural medical providers and patients.

#### **Equipment to Deliver Services**

HHA uses two different technologies for delivering interactive video. The first is the use of analog video delivered via single mode fiber optic cable. This technology is provided by Galaxy Cable's Network Services Division. The Galaxy fiber optic cable is also capable of carrying up to 100 Mega bytes per second of Ethernet based data.

When designing its interactive video system, HHA investigated all options for connectivity and chose to connect HHA rural hospitals to fiber optic cable where financially feasible. HHA determined that a fiber optic connection is the most effective, dependable, cost efficient, and sustainable technology to connect rural hospitals for interactive video programming, data transmission and for future telemedicine consults. The fiber optic connection will provide the same benefits to other community organization utilizing the interactive video system.

The second technology used is for areas where fiber optic is not economically feasible. This is the case in Valentine, Nebraska. The Cherry County Hospital will be connected to the HHA



Interactive Video System using Motion Media videoconferencing units via high speed phone line such as T-1, ISDN or Switch 56.

### **Equipment for the Cherry County Hospital**

The Cherry County Hospital will utilize a high-speed phone line to access the interactive video system. Funding assistance is requested to assist with purchasing a Motion Media 225 Dual Mode Videophone, and 32 inch monitor and a document camera.

### **Consultation with Telecommunication Carriers**

The Cherry County Hospital and HHA will work with Quest, the local telephone company in Valentine, to establish high-speed phone line connection for the hospital. Initial contact has been made with the company during the preparation of the grant application.

#### **5. Address any technical issues with the proposed technology including:**

- **Conformity with generally accepted industry standards. Projects which interface with other state systems (such as distance learning systems) should also address NITC technical standards and guidelines.**
- **Compatibility with existing institutional and/or statewide infrastructure.**
- **Reliability, security and scalability (future needs for growth or adaptation).**

**(5 points)**

The Cherry County Hospital, in cooperation with HHA and BryanLGH Medical Center, has reviewed the NITC Video Standard and is confident that the Interactive Video/Distance Learning System proposed in this application is in compliance with NITC Video Standards. Throughout the grant project, Cherry County Hospital will consult NITC to ensure that the system installed in at the hospital is in compliance with the state standards.

#### **6. Describe how technical support will be provided. (5 points)**

Currently HHA and BryanLGH Medical Center staff work with the six hospitals that already have access to the Interactive Video/Distance Learning System. Technical assistance is provided by these two organizations on the operation and maintenance of the system at each local site. These organizations also provide assistance in access medical and educational programming needed by the participating hospitals. This type of technical and programming assistance will also be made available to the Cherry County Hospital as well as extensive assistance in getting the Interactive Video/Distance Learning System installed and operational.

## **Preliminary Plan for Implementation**

7. **Describe the project sponsor(s) and stakeholder acceptance. If letters of support are included, list the entities or individuals submitting letters of support and briefly summarize the letter's content. Include information on any match being provided by project sponsors. (5 points)**

### **Applicant and Participating Organizations**

- **Cherry County Hospital, Valentine, Nebraska**

The Cherry County Hospital is a Critical Access Hospital certified by Medicare located in Northcentral Nebraska. The hospital is located in the town of Valentine, Nebraska which has a population of 2,880. The area is famous for the Nebraska Sandhills with its abundant outdoor and wildlife recreational opportunities. The facility is a modern up to date facility, and 5600 square feet for outpatient service was recently added in 1998.

The hospital is an active, vibrant, and progressive organization with special personnel on staff. The staff is continuously challenged with a variety and interesting caseload. The respective departments of the hospital are staffed by accredited and licensed personnel. All registered nursing staff are advanced cardiac life support, neonatal life support, and nurse trauma trained. The hospital has full time anesthesia available. A full time pharmacist and physical therapist are also on staff. The hospital staff works closely with the staff of the Rosebud Indian Hospital, Rosebud, South Dakota to develop additional services to the mutual benefit of both institutions.

- **Heartland Health Alliance, Holbrook, Nebraska**

HHA is a small, rural, located non-profit organization, whose operating budget is approximately \$150,000 annually. HHA's funding is comprised of membership dues and fees charged for a Centralized Credentialing program and per diem staffing services, including an Executive Director, a Credentialing Coordinator and other contractual services as necessary.

To assist the Cherry County Hospital and other member rural hospitals strained by limited resources, HHA coordinates efforts to improve the quality of care in rural Nebraska. Interactive video is a significant commitment that HHA has made to provide rural hospitals with the technology and access to programming needed to enhance improve the quality of medical services and care for rural Nebraskans.

Because of a limitation on financial resources, the Cherry County Hospital is not able alone to coordinate and finance the initial cost of the equipment needed to set up an interactive video classroom. Hence HHA's commitment to (technically and financially) coordinate the installation of interactive video at the Cherry County Hospital as well as at other rural hospital and to assist with the coordination of medical and educational programming. A coordinated effort for interactive video installation and programming is a cost effective and efficient way to develop an interactive system that in the short-term benefit rural patients and medical providers through improved medical and educational services.

In 2001, HHA secured federal grant funds from the USDA Rural Utilities Service to increase the number of rural hospitals with the access to the Interactive Video/Distance Learning System. Federal grant funds in the amount of \$7,714 have been approved to assist Cherry County Hospital with the purchase of the interactive video classroom equipment. These matching funds are reflected in the budget.

**8. Describe the project team, including their roles, responsibilities, and experience. (5 points)**

**Cherry County Hospital, Valentine, Nebraska**

**Mr. Brent Peterson, Administrator  
Cherry County Hospital**

Mr. Brent Peterson has served as administrator of the Cherry County Hospital since 1980. Mr. Peterson has a Bachelor of Science in Physical Education and a Minor in Science from Dana College in Blair, Nebraska and a Bachelor of Science in Physical Therapy from the University of Nebraska Medical College. Via independent study, Mr. Peterson has completed coursework in Hospital Administration at the University of Minnesota. Mr. Peterson is Past President of the Nebraska Hospital Association and the Heartland Health Alliance.

**Heartland Health Alliance and BryanLGH Medical Center**

As lead organization for the interactive video system, HHA and BryanLGH Medical Center will provide the Cherry County Hospital access to interactive video and programming opportunities. The following is a list of staff dedicated to the implementation of this project.

**Mr. Kenneth L. Foster, Executive Director  
Heartland Health Alliance**

Mr. Kenneth L. Foster has served as the head of the Heartland Health Alliance since its inception in July of 1995. He currently serves as the Executive Director of the Heartland Health Alliance through a management support agreement with BryanLGH Medical Center.

Mr. Foster has over 20 years of experience in strategic planning, network development and program development. He earned a Bachelor of Arts Degree in Geography from Moorhead State University, Moorhead, Minnesota and a Master's of Planning Degree from University of North Dakota, Fargo, North Dakota. He is a member of the National Cooperative of Health Networks and the National Rural Health Association. He is also active in the Nebraska Rural Health Association.

**Bruce Thiel, Multimedia and Telehealth Services Manager  
BryanLGH Medical Center East**

Mr. Thiel serves as the primary manager of HHA's interactive video network. Mr. Thiel has over 25 years of experience as a producer in educational telecommunications. He worked for

four years as a producer for the Veterans Administrations national production center in Salt Lake City, Utah producing health related video and multimedia programs for national distribution. More recently he worked as a producer of video and web based education programs (including work on the CLASS Project) for the Nebraska ETV Network, a part of Nebraska Educational Telecommunications.

**9. List the major milestones and a timeline for completing each milestone. (5 points)**

<b>Activity</b>	<b>Responsible Organizations</b>	<b>Timeframe</b>
<b>1. Implement Interactive Video/Distance Learning System project at Cherry County Hospital</b> <ul style="list-style-type: none"> <li>Revisit discussions with telecommunications company serving Cherry County</li> <li>Establish timeline for interactive video installation and implementation</li> <li>Install interactive video at Cherry County Hospital</li> <li>Conduct training on use of interactive video equipment</li> </ul>	Cherry County Hospital Administrator HHA Executive Director BryanLGH Medical Center Multimedia and Telehealth Services Manager  Same as above  Same as above  Cherry County Hospital BryanLGH Medical Center Multimedia and Telehealth Services Manager Quest (Local Telecommunication Company)	Quarter One June-August 2002   Quarter One June-August 2002  Quarter Two September-November 2002  Quarter Two September-November 2002
<b>2. Expand interactive video programming opportunities</b> <ul style="list-style-type: none"> <li>Inform Cherry County Hospital (e-mail, HHA Web page, etc.) of existing medical and educational interactive programming opportunities available to the hospital and the community</li> <li>Expand programming opportunities for the Cherry County Hospital</li> </ul>	HHA Education Committee HHA Executive Director BryanLGH Medical Center Multimedia and Telehealth Services Manager  Cherry County Hospital	Quarter Three December 2002 – February 2003  Quarter Three December 2002 – February 2003

<p><b>3. Design and implement Community Outreach Program on Interactive Video/Distance Learning System capabilities</b></p> <ul style="list-style-type: none"> <li>• Collaborate with local community organizations in Valentine and Cherry County to promote the availability and use of the Interactive Video/Distance Learning System and to identify and access other types of programming opportunities</li> </ul>	<p>Cherry County Hospital Administrator HHA Public Relations Committee HHA Executive Director</p>	<p>Quarter Four March-May 2003</p>
<p><b>4. Evaluate Project</b></p> <ul style="list-style-type: none"> <li>• Develop plan to evaluate effectiveness of existing and expanded of HHA interactive video system at Cherry County Hospital</li> <li>• Develop project evaluation tools (surveys, interviews, site visits, cost benefit analysis) as a means to evaluate the effectiveness of the Interactive Video/Distance Learning System</li> <li>• Compile and analyze evaluation results</li> <li>• Prepare final report on interactive video with recommendations for future improvements and upgrades to the system and identify the need for other programming opportunities</li> </ul>	<p>Cherry County Hospital Administrator HHA Executive Director Bryan LGH Medical Center Multimedia and Telehealth Services Manager</p>	<p>Quarters One through Four  June 2002 – May 2003-</p>

**10. Describe how the project will be sustained. (5 points)**

After the initial installation of the Interactive Video/Distance Learning System, the Cherry County Hospital is committed to finance, maintain and upgrade the system based on local needs and compliance with NITC Video Standards.

**11. Describe the project's evaluation plan, including measurement and assessment methods that will verify project outcomes. (10 points)**

As part of this project, the Cherry County Hospital and HHA will develop a plan to evaluate the effectiveness of the Interactive Video/Distance Learning System at Cherry County Hospital. This will include the development project evaluation tools such as surveys, interviews, site visits, and a cost benefit analysis. The Cherry County Hospital will compile and analyze evaluation results and prepare final report that will include recommendations for future improvements and upgrades to the system and identifying the need for other programming opportunities.

## Financial Analysis and Budget (20 points)

The budget will be scored on reasonableness (up to 10 points), mathematical accuracy (up to 5 points), and the strength and appropriateness of the match (up to 5 points).

Provide the following financial information:

	CTF Grant Funding	Cash Match (5)	In-Kind Match (6)	Other Funding Sources (7)	Total
Personnel Costs(1)			\$ 9,000		\$ 9,000
Contractual Services (2)	\$ 6,200	\$ 4,000			\$10,200
Capital Expenditures (3) (Hardware, software, etc.)	\$ 3,186			\$ 7,714	\$10,900
Supplies and Materials					
Telecommunications	\$ 1,750				\$ 1,750
Training					
Travel					
Other costs (4)					
<b>TOTAL</b>	\$11,136	A\$ 4,000	B\$ 9,000	\$ 7,714	C\$31,850

Match Percent = **\$13,000/\$31,850 = 41 percent match**

Match Requirement: This grant requires a 20% match. Please calculate your match by using the formula below to ensure your application meets this requirement:

Total Cash Match (A) + Total In-Kind Match (B)  
 \_\_\_\_\_ >= .20

Total Project Cost (C)

## Cherry County Hospital Financial Narrative Description

### (1) Personnel Costs - \$9,000

#### Cherry County Hospital In-Kind Match (6) - \$9,000

300 hours @ \$30 per hour for Cherry County Hospital staff (Administrator, medical and information technology) to design, learn and implement interactive video at the hospital

### (2) Contractual Services – \$10,200

#### NITC Grant Funds Requested - \$6,200

40 hours @ \$30 per hour (\$1,200) for Cherry County to contract with BryanLGH Medical Center Multimedia and Telehealth Services Managers to design, implement, and evaluate Interactive Video/Distance Learning System at Cherry County Hospital

Mileage, meals and lodging (\$1,000) for Telehealth Services Manager to make three trips to Valentine to assist Cherry County Hospital with the project implementation

Fifty percent (50%) of Cherry County Hospital's phone line expense for interactive video (\$4,000) for year one

#### Cherry County Hospital Cash Match (5) - \$4,000

Fifty percent (50%) of Cherry County Hospital's phone line expense for interactive video (\$4,000) for year one

### (3) Capital Expenditures - \$10,900

#### NITC Grant Funds Requested - \$3,186

#### USDA Rural Utilities Service Grant Funds for Cherry County Hospital (7) - \$7,714

Interactive video equipment: Motion Media 225 Dual Mode Videophone, and 32 inch monitor and a document camera

#### **Telecommunications - \$1,750**

#### NITC Grant Funds Requested - \$1,750

Initial phone line hookup at Cherry County Hospital for interactive video